

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 2, 2002, 00:24:09 ; Search time 938.546 Seconds
(without alignments)
11318.063 Million cell updates/sec

Title: US-09-856-979-7

Perfect score: 365

Sequence: 1 tcagccagacaaatgggggc.....tccatcaagccgtcgatg 365

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

- 1: gb_ba.*
- 2: gb_htg.*
- 3: gb_in.*
- 4: gb_om.*
- 5: gb_ov.*
- 6: gb_pat.*
- 7: gb_ph.*
- 8: gb_pi.*
- 9: gb_pr.*
- 10: gb_ro.*
- 11: gb_sts.*
- 12: gb_sy.*
- 13: gb_un.*
- 14: gb_vi.*
- 15: em_ba.*
- 16: em_fun.*
- 17: em_hum.*
- 18: em_in.*
- 19: em_mu.*
- 20: em_om.*
- 21: em_or.*
- 22: em_ov.*
- 23: em_pat.*
- 24: em_ph.*
- 25: em_pi.*
- 26: em_ro.*
- 27: em_sts.*
- 28: em_un.*
- 29: em_vi.*
- 30: em_htg_hum.*
- 31: em_htg_inv.*
- 32: em_htg_other.*
- 33: em_htg_mus.*
- 34: em_htg_pln.*
- 35: em_htg_rtd.*
- 36: em_htg_nam.*
- 37: em_htg_vrt.*
- 38: em_sy.*
- 39: em_htgo_hum.*
- 40: em_htgo_mus.*
- 41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	365	100.0	365	6	BD013096	BD013096 Method fo
2	365	100.0	365	23	BD010124	Bd010124 Method fo
3	365	100.0	1695	6	BD013095	BD013095 Method fo
4	365	100.0	1695	23	BD010123	Bd010123 Method fo
5	365	100.0	2275	6	BD013093	BD013093 Method fo
6	365	100.0	2275	23	BD010121	Bd010121 Method fo
7	365	100.0	2407	6	A23333	A23333 El gene, TA
8	365	100.0	2407	6	AR007519	AR007519 Sequence
9	365	100.0	2407	6	AR084085	AR084085 Sequence
10	365	100.0	2407	6	I47736	I47736 Sequence 8
11	365	100.0	5228	6	BD013092	BD013092 Method fo
12	365	100.0	5228	23	BD010120	Bd010120 Method fo
13	365	100.0	5349	6	A71437	A71437 Sequence 7
14	365	100.0	5349	6	AR207455	AR207455 Sequence
15	365	100.0	6539	6	E31991	E31991 Mutated bar
16	365	100.0	6548	6	A60109	A60109 Sequence 2
17	365	100.0	6548	6	A76916	A76916 Sequence 2
18	365	100.0	6548	6	AR098308	AR098308 Sequence
19	365	100.0	6548	6	E31990	E31990 Mutated bar
20	365	100.0	7492	6	BD013094	BD013094 Method fo
21	365	100.0	7492	23	BD010122	Bd010122 Method fo
22	365	100.0	170226	8	AP003450	AP003450 Oryza sat
23	360.4	98.7	6667	6	AX118825	AX118825 Sequence
24	360	98.6	1687	6	AX118836	AX118836 Sequence
25	42.8	11.7	129024	2	AP004185	AP004185 Oryza sat
26	42.8	11.7	144480	2	AP004276	AP004276 Oryza sat
27	40.8	11.2	125020	9	AF429315	AF429315 Homo sapi
28	40.6	11.1	90275	2	AP003978	AP003978 Oryza sat
29	40.6	11.1	143436	2	AP004801	AP004801 Oryza sat
30	39.6	10.8	13056	1	AE012220	AE012220 Xanthomon
31	37.8	10.4	159451	2	AP005446	AP005446 Oryza sat
32	37.2	10.2	135712	2	AC108499	AC108499 Oryza sat
33	37	10.1	40909	1	SC135	AL031541 Streptomy
34	36.6	10.0	110000	2	LMFLCHR18_04	Continuation (5 of
35	36.4	10.0	158714	8	AC082644	AC082644 Oryza sat
36	36.2	9.9	108380	2	AC120827	AC120827 Rattus no
37	36.2	9.9	151914	2	AP004333	AP004333 Oryza sat
38	36	9.9	5432	1	DB4475	D84475 Pseudomonas
39	36	9.9	11403	1	AE004488	AE004488 Pseudomon
40	35.8	9.8	11692	1	AE011995	AE011995 Xanthomon
41	35.8	9.8	34182	1	SC111	AL096849 Streptomy
42	35.8	9.8	138537	2	AC130608	AC130608 Oryza sat
43	35.8	9.8	143506	2	AC130598	AC130598 Oryza sat
44	35.8	9.8	143567	2	AC129720	AC129720 Oryza sat
45	35.8	9.8	144520	2	AP004278	AP004278 Oryza sat

ALIGNMENTS

RESULT 1
BD013096
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL

BD013096
Method for producing male-sterile plant.
BD013096
BD013096.1 GI:22093285
WO 0124616-A/7
synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 365)
Hamada, K. and Nakakido, F.
Method for producing male-sterile plant
Patent: WO 0124616-A 7 12-APR-2001;
JAPAN TOBACCO INC, KAZUYUKI HAMADA, FUMIO NAKAKIDO

365 bp DNA
linear PAT 02-AUG-2002

```
COMMENT OS Artificial Sequence
PN WO 0124616-A/7
PD 12-APR-2001
PF 12-SEP-2000 WO 2000JP006222
PR 30-SEP-1999 JP 99P 279307
PI KAZUYUKI HAMADA, FUMIO NAKAKIDO
PC A01H5/00, C12N15/11, C12N15/63, C12N15/82
CC deleted E1 promoter
FH key Location/Qualifiers.

FEATURES
    source      1..365
                /organism="synthetic construct"
                /db_xref="taxon:32630"
BASE COUNT    86 a 119 c 82 g 78 t
ORIGIN

Query Match      100.0%; Score 365; DB 6; Length 365;
Best Local Similarity 100.0%; Pred. No. 2.6e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTGGCCATACATTAAACCAAGTAAAG 60
   |||||||
DB 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTGGCCATACATTAAACCAAGTAAAG 60

QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTCTGGCCAAACGGTGAGAAATGCACCTA 120
   |||||||
DB 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTCTGGCCAAACGGTGAGAAATGCACCTA 120

QY 121 ATGGAGGGGACAACTCTTTTACCGTGCTACTGCTACATCTCTAGACGGTGGACGG 180
   |||||||
DB 121 ATGGAGGGGACAACTCTTTTACCGTGCTACTGCTACATCTCTAGACGGTGGACGG 180

QY 181 TGAGGTGCTTTTCGCCATGACCGTCTCTGTTGTTGTCAGTCACTTGCACAGCTTGCACCG 240
   |||||||
DB 181 TGAGGTGCTTTTCGCCATGACCGTCTCTGTTGTTGTCAGTCACTTGCACAGCTTGCACCG 240

QY 241 TGACTCACTGCCACATGCCCCCGCGCTGCGCGCGCTACAAAAGCCACACAGCGACG 300
   |||||||
DB 241 TGACTCACTGCCACATGCCCCCGCGCTGCGCGCGCTACAAAAGCCACACAGCGACG 300

QY 301 CCGGCCACGATAACCCATCTAGCATCCCGGTGTCACGACAGAGATCCATCAAGCCGTG 360
   |||||||
DB 301 CCGGCCACGATAACCCATCTAGCATCCCGGTGTCACGACAGAGATCCATCAAGCCGTG 360

QY 361 CGATG 365
   |||||
DB 361 CGATG 365

RESULT 2
BD010124
ID BD010124 standard; DNA; SYN; 365 BP.
XX
AC BD010124;
XX
SV BD010124.1
XX
DT 08-FEB-2002 (Rel. 70, Created)
DT 08-FEB-2002 (Rel. 70, Last updated, Version 1)
XX
DE Method for producing male-sterile plant.
XX
KW JP 03075934-T/7.
XX
OS synthetic construct
OC artificial sequence.
XX
RN [1]
RP Hamada K., Nakakido F.;
RA "Method for producing male-sterile plant";
RT Patent number JP03075934-T/7, 16-MAR-2001.
RL JAPAN TOBACCO INC, KAZUYUKI HAMADA, FUMIO NAKAKIDO.

XX OS Artificial Sequence
CC PN JP 03075934-T/7
CC PD 12-APR-2001
CC PF 12-SEP-2000 JP 2000006222
CC PR 30-SEP-1999 JP 99P 279307
CC PI KAZUYUKI HAMADA, FUMIO NAKAKIDO
CC PC A01H5/00, C12N15/11, C12N15/63, C12N15/82
CC CC deleted E1 promoter
CC CC Key Location/Qualifiers
CC FH key source 1..365
CC FT /organism="Artificial Sequence"
XX
XX key Location/Qualifiers
FH FT source 1..365
FH FT /db_xref="taxon:32630"
FH FT /organism="synthetic construct"
XX
SQ Sequence 365 BP; 86 A; 119 C; 82 G; 78 T; 0 other;

Query Match      100.0%; Score 365; DB 23; Length 365;
Best Local Similarity 100.0%; Pred. No. 2.6e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTGGCCATACATTAAACCAAGTAAAG 60
   |||||||
DB 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTGGCCATACATTAAACCAAGTAAAG 60

QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTCTGGCCAAACGGTGAGAAATGCACCTA 120
   |||||||
DB 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTCTGGCCAAACGGTGAGAAATGCACCTA 120

QY 121 ATGGAGGGGACAACTCTTTTACCGTGCTACTGCTACATCTCTAGACGGTGGACGG 180
   |||||||
DB 121 ATGGAGGGGACAACTCTTTTACCGTGCTACTGCTACATCTCTAGACGGTGGACGG 180

QY 181 TGAGGTGCTTTTCGCCATGACCGTCTCTGTTGTTGTCAGTCACTTGCACAGCTTGCACCG 240
   |||||||
DB 181 TGAGGTGCTTTTCGCCATGACCGTCTCTGTTGTTGTCAGTCACTTGCACAGCTTGCACCG 240

QY 241 TGACTCACTGCCACATGCCCCCGCGCTGCGCGCGCTACAAAAGCCACACAGCGACG 300
   |||||||
DB 241 TGACTCACTGCCACATGCCCCCGCGCTGCGCGCGCTACAAAAGCCACACAGCGACG 300

QY 301 CCGGCCACGATAACCCATCTAGCATCCCGGTGTCACGACAGAGATCCATCAAGCCGTG 360
   |||||||
DB 301 CCGGCCACGATAACCCATCTAGCATCCCGGTGTCACGACAGAGATCCATCAAGCCGTG 360

QY 361 CGATG 365
   |||||
DB 361 CGATG 365

RESULT 3
BD013095
LOCUS      BD013095      1695 bp      DNA      linear      PAT 02-AUG-2002
DEFINITION Method for producing male-sterile plant.
ACCESSION  BD013095
VERSION    BD013095.1 GI:22093284
KEYWORDS   WO 0124616-A/6.
SOURCE     Oryza sativa.
ORGANISM   Oryza sativa
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
            Ehrhartoideae; Oryzaceae; Oryza.
            1 (bases 1 to 1695)
            Hamada, K. and Nakakido, F.
            Method for producing male-sterile plant
            Patent: WO 0124616-A 6 12-APR-2001.
            JAPAN TOBACCO INC, KAZUYUKI HAMADA, FUMIO NAKAKIDO
            OS Oryza sativa (rice)
            PN WO 0124616-A/6
```

PD 12-APR-2001
PF 12-SEP-2000 WO 2000JP006222
PR 30-SEP-1999 JP 99P 279307
PI KAZUYUKI HAMADA,FUMIO NAKAKIDO
PC A01H5/00,C12N15/11,C12N15/63,C12N15/82
CC El promoter Location/Qualifiers.
FH Key Location/Qualifiers
source
1..1695
/organism="Oryza sativa"
/db_xref="taxon:4530"
BASE COUNT 503 a 384 c 357 g 451 t
ORIGIN
Query Match 100.0%; Score 365; DB 6; Length 1695;
Best Local Similarity 100.0%; Pred. No. 3.1e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGGTAAAG 60
Db 1331 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGGTAAAG 1390
QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGGCCAAAGGTGAGAAATGCACCTA 120
Db 1391 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGGCCAAAGGTGAGAAATGCACCTA 1450
QY 121 ATGGACGGGACACACTTCTTCACCGTCTACTGCTACATCTCTGTAGACGGTGGACGG 180
Db 1451 ATGGACGGGACACACTTCTTCACCGTCTACTGCTACATCTCTGTAGACGGTGGACGG 1510
QY 181 TGAGTGCTTTGCCATACCGTCTCTTGGTGTGTCAGTCACTTTGGCAGCTTGACCG 240
Db 1511 TGAGTGCTTTGCCATACCGTCTCTTGGTGTGTCAGTCACTTTGGCAGCTTGACCG 1570
QY 241 TGACTCACTGCGACATTTGCCCGCGCTGCGCGCGCTTACAAAGCCACACACGCG 300
Db 1571 TGACTCACTGCGACATTTGCCCGCGCTGCGCGCGCTTACAAAGCCACACACGCG 1630
QY 301 CGGGCAGGATACCCATCTAGCATCCCGGTGCCAGCAAGAGATCCATCAAGCCGTG 360
Db 1631 CGGGCAGGATACCCATCTAGCATCCCGGTGCCAGCAAGAGATCCATCAAGCCGTG 1690
QY 361 CGATG 365
Db 1691 CGATG 1695
RESULT 4
BD010123
ID BD010123 standard; DNA; PLN; 1695 BP.
AC
XX BD010123;
XX
SV BD010123.1
XX
XX 08-FEB-2002 (Rel. 70, Created)
DT 08-FEB-2002 (Rel. 70, Last updated, Version 1)
XX
XX Method for producing male-sterile plant.
DE
XX JP 03075934-T/6.
KW
XX
XX Oryza sativa
OS
XX Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC
XX Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae;
OC
XX Oryzaceae; Oryza.
XX
XX [1]
RN 1-1695
RP Hamada K., Nakakido F.:
RA "Method for producing male-sterile plant";
RT Patent number JP03075934-T/6, 16-MAR-2001.
RL JAPAN TOBACCO INC,KAZUYUKI HAMADA,FUMIO NAKAKIDO.

XX OS Oryza sativa (rice)
CC JP 03075934-T/6
CC PN 16-MAR-2001
CC PD 12-SEP-2000 JP 200006222
CC PF 30-SEP-1999 JP 99P 279307
CC PI KAZUYUKI HAMADA,FUMIO NAKAKIDO
CC PR A01H5/00,C12N15/11,C12N15/63,C12N15/82
CC PC A01H5/00,C12N15/11,C12N15/63,C12N15/82
CC CC
CC FH Key Location/Qualifiers
CC FT source 1..1695
CC FT /organism="Oryza sativa"
XX
FH Key Location/Qualifiers
FH FH source 1..1695
FH FT /db_xref="taxon:4530"
FH FT /organism="Oryza sativa"
XX
SQ Sequence 1695 BP; 503 A; 384 C; 357 G; 451 T; 0 other;
Query Match 100.0%; Score 365; DB 23; Length 1695;
Best Local Similarity 100.0%; Pred. No. 3.1e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGGTAAAG 60
Db 1331 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGGTAAAG 1390
QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGGCCAAAGGTGAGAAATGCACCTA 120
Db 1391 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGGCCAAAGGTGAGAAATGCACCTA 1450
QY 121 ATGGACGGGACACACTTCTTCACCGTCTACTGCTACATCTCTGTAGACGGTGGACGG 180
Db 1451 ATGGACGGGACACACTTCTTCACCGTCTACTGCTACATCTCTGTAGACGGTGGACGG 1510
QY 181 TGAGTGCTTTGCCATACCGTCTCTTGGTGTGTCAGTCACTTTGGCAGCTTGACCG 240
Db 1511 TGAGTGCTTTGCCATACCGTCTCTTGGTGTGTCAGTCACTTTGGCAGCTTGACCG 1570
QY 241 TGACTCACTGCGACATTTGCCCGCGCTGCGCGCGCTTACAAAGCCACACACGCG 300
Db 1571 TGACTCACTGCGACATTTGCCCGCGCTGCGCGCGCTTACAAAGCCACACACGCG 1630
QY 301 CGGGCAGGATACCCATCTAGCATCCCGGTGCCAGCAAGAGATCCATCAAGCCGTG 360
Db 1631 CGGGCAGGATACCCATCTAGCATCCCGGTGCCAGCAAGAGATCCATCAAGCCGTG 1690
QY 361 CGATG 365
Db 1691 CGATG 1695
RESULT 5
BD013093/c
LOCUS BD013093 2275 bp DNA linear PAT 02-AUG-2002
DEFINITION Method for producing male-sterile plant.
ACCESSION BD013093
VERSION BD013093.1 GI:22093282
KEYWORDS WO 0124616-A/4.
SOURCE
ORGANISM
REFERENCE
1 (bases 1 to 2275)
AUTHORS Hamada,K. and Nakakido,F.
TITLE Method for producing male-sterile plant
JOURNAL Patent: WO 0124616-A 4 12-APR-2001;
COMMENT JAPAN TOBACCO INC,KAZUYUKI HAMADA,FUMIO NAKAKIDO
OS Artificial Sequence
PN WO 0124616-A/4
PD 12-APR-2001
PF 12-SEP-2000 WO 2000JP006222


```
/gene="PI"
/codon_start=1
/protein_id="CAA01673.1"
/db_xref="GI:904320"
/translation="MTTRPSVSTVVAATAIAALLSSLLLLLOATPAASAKASKASC
DJMQ
BASE COUNT      662 a 543 c 507 g 695 t
ORIGIN

Query Match      100.0%; Score 365; DB 6; Length 2407;
Best Local Similarity 100.0%; Pred. No. 3.2e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 60
DB 1902 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 1961

QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 120
DB 1902 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 2021

QY 121 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 180
DB 2022 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 2081

QY 181 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 240
DB 2082 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 2141

QY 241 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 300
DB 2142 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 2201

QY 301 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 360
DB 2202 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 2261

QY 361 CGATG 365
DB 2262 CGATG 2266

RESULT 8
AR007519
LOCUS      AR007519      2407 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 9 from patent US 5977433.
ACCESSION  AR007519
VERSION     AR007519.1  GI:10010856
KEYWORDS   .
SOURCE     .
ORGANISM   Unknown.
REFERENCE  1 (bases 1 to 2407)
AUTHORS   Williams M. and Leemans J.
TITLE     Maintenance of male-sterile plants
JOURNAL   Patent: US 5977433-A 9 02-NOV-1999;
FEATURES   Location/Qualifiers
            source
            1..2407
            /organism="unknown"
BASE COUNT      662 a 543 c 507 g 695 t
ORIGIN

Query Match      100.0%; Score 365; DB 6; Length 2407;
Best Local Similarity 100.0%; Pred. No. 3.2e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 60
DB 1902 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 1961

QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 120
DB 1902 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 2021

QY 121 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 180
DB 2022 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 2081

QY 181 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 240
DB 2082 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 2141

QY 241 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 300
DB 2142 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 2201

QY 301 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 360
DB 2202 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 2261

QY 361 CGATG 365
DB 2262 CGATG 2266

RESULT 8
AR007519
LOCUS      AR007519      2407 bp      DNA      linear      PAT 04-DEC-1998
DEFINITION Sequence 9 from patent US 5750867.
ACCESSION  AR007519
VERSION     AR007519.1  GI:3967003
KEYWORDS   .
SOURCE     .
ORGANISM   Unknown.
REFERENCE  1 (bases 1 to 2407)
AUTHORS   Williams M. and Leemans J.
TITLE     Maintenance of male-sterile plants
JOURNAL   Patent: US 5750867-A 9 12-MAY-1998;
FEATURES   Location/Qualifiers
            source
            1..2407
            /organism="unknown"
BASE COUNT      662 a 543 c 507 g 695 t
ORIGIN

Query Match      100.0%; Score 365; DB 6; Length 2407;
Best Local Similarity 100.0%; Pred. No. 3.2e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 60
DB 1902 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 1961

QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 120
DB 1902 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 2021
```

```
QY 121 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 180
DB 2022 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 2081

QY 181 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 240
DB 2082 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 2141

QY 241 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 300
DB 2142 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 2201

QY 301 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 360
DB 2202 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 2261

QY 361 CGATG 365
DB 2262 CGATG 2266
```

```
RESULT 9
AR084085
LOCUS      AR084085      2407 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 9 from patent US 5977433.
ACCESSION  AR084085
VERSION     AR084085.1  GI:10010856
KEYWORDS   .
SOURCE     .
ORGANISM   Unknown.
REFERENCE  1 (bases 1 to 2407)
AUTHORS   Williams M. and Leemans J.
TITLE     Maintenance of male-sterile plants
JOURNAL   Patent: US 5977433-A 9 02-NOV-1999;
FEATURES   Location/Qualifiers
            source
            1..2407
            /organism="unknown"
BASE COUNT      662 a 543 c 507 g 695 t
ORIGIN
```

```
Query Match      100.0%; Score 365; DB 6; Length 2407;
Best Local Similarity 100.0%; Pred. No. 3.2e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 60
DB 1902 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAAACCAGTAAAG 1961

QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 120
DB 1902 TCCTACACTCAACCTAACTGTTGAACGGTCTCTTGTTCGGCCAAAGGAGAGATGCACCTA 2021

QY 121 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 180
DB 2022 ATGACCGGAGAACACTTCTTTCACCGTCTACTGCTACATCCTGTAGACGGTGGACGCG 2081

QY 181 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 240
DB 2082 TGAGGTGCTTTCCGCATGACCGTCTTGTGTTGTCAGTCACTTGGCGCAGCGTTGCACCG 2141

QY 241 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 300
DB 2142 TGACTCACTGCCACATTTGCCCGCCCGCTGCGCGGCGCTACAAAAGCCACACGCGTGC 2201

QY 301 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 360
DB 2202 CGGCGCAGGATACCCATCTAGCATCCCGGTGTCAGCAAGAGATCCATCAAGCGCTGC 2261

QY 361 CGATG 365
DB 2262 CGATG 2266
```

```
RESULT 10
I47736 LOCUS I47736 2407 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 8 from patent US 5639948.
ACCESSION I47736
VERSION I47736.1 GI:2471701
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
  1 (bases 1 to 2407)
  Unclassified.
  Michiels, F., Moritoka, S., Scheirlinck, T. and Komari, T.
  Stamen-specific promoters from rice
  JOURNAL Patent: US 5639948-A 8 17-JUN-1997;
  LOCATION/Qualifiers
  1. .2407
  /organism="unknown"
BASE COUNT 662 a 543 c 507 g 695 t
ORIGIN
Query Match 100.0%; Score 365; DB 6; Length 2407;
Best Local Similarity 100.0%; Pred. No. 3.2e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGCTAAAG 60
DB 1902 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGCTAAAG 1961
QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTGCGCAACGGTGAGAAATGCACCTA 120
DB 1902 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGCTAAAG 1961
QY 121 ATGACGGGACACACTCTTTACCGTGTCTGTTGCGCAACGGTGAGAAATGCACCTA 180
DB 1902 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTGCGCAACGGTGAGAAATGCACCTA 2021
QY 121 ATGACGGGACACACTCTTTACCGTGTCTGTTGCGCAACGGTGAGAAATGCACCTA 180
DB 2022 ATGACGGGACACACTCTTTACCGTGTCTGTTGCGCAACGGTGAGAAATGCACCTA 2081
QY 181 TGAGTGCTTTGCGCAATGACCGTCTCTGTTGTTGCGAGTCACTTGGCGACGCTTGCACCG 240
DB 2082 TGAGTGCTTTGCGCAATGACCGTCTCTGTTGTTGCGAGTCACTTGGCGACGCTTGCACCG 2141
QY 241 TGACTACCTGCGCACATTTGCCCGCGCGCTGCGCGCGCTTACAAAAGCCACACACGCGACG 300
DB 2142 TGACTACCTGCGCACATTTGCCCGCGCGCTGCGCGCGCTTACAAAAGCCACACACGCGACG 2201
QY 301 CCGCGGACGATACCCATCCTAGCATCCCGGTGTCAGCAGAGAGATCCATCAAGCGCTCG 360
DB 2202 CCGCGGACGATACCCATCCTAGCATCCCGGTGTCAGCAGAGAGATCCATCAAGCGCTCG 2261
QY 361 CGATG 365
DB 2262 CGATG 2266
RESULT 11
BD013092/c LOCUS BD013092 5228 bp DNA linear PAT 02-AUG-2002
DEFINITION Method for producing male-sterile plant.
ACCESSION BD013092
VERSION BD013092.1 GI:22093281
KEYWORDS WO 0124616-A/3.
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
  1 (bases 1 to 5228)
  Hamada, K. and Nakakido, F.
  Method for producing male-sterile plant
  JOURNAL Patent: WO 0124616-A 3 12-APR-2001;
  COMMENT JAPAN TOBACCO INC, KAZUYUKI HAMADA, FUMIO NAKAKIDO
  OS Artificial Sequence
  PN WO 0124616-A/3
  PD 12-APR-2001
```

```
PF 12-SEP-2000 WO 2000JP006222
PR 30-SEP-1999 JP 99P 279307
PI KAZUYUKI HAMADA, FUMIO NAKAKIDO
PC A01H5/00, C12N15/11, C12N15/63, C12N15/82
CC Plasmid pPS172 delta
FH Key Location/Qualifiers.
FEATURES
  source 1. .5228
  BASE COUNT 1384 a 1307 c 1263 g 1274 t
  ORIGIN
  Query Match 100.0%; Score 365; DB 6; Length 5228;
  Best Local Similarity 100.0%; Pred. No. 3.4e-93;
  Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGCTAAAG 60
  DB 2986 TCAGCCAGACCAATGGGGCAAAATTTACTACTATTTGCCATACATTAACCCAGCTAAAG 2927
  QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTGCGCAACGGTGAGAAATGCACCTA 120
  DB 2926 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTTGCGCAACGGTGAGAAATGCACCTA 2867
  QY 121 ATGACGGGACACACTCTTTACCGTGTCTGTTGCGCAACGGTGAGAAATGCACCTA 180
  DB 2866 ATGACGGGACACACTCTTTACCGTGTCTGTTGCGCAACGGTGAGAAATGCACCTA 2807
  QY 181 TGAGTGCTTTGCGCAATGACCGTCTCTGTTGTTGCGAGTCACTTGGCGACGCTTGCACCG 240
  DB 2806 TGAGTGCTTTGCGCAATGACCGTCTCTGTTGTTGCGAGTCACTTGGCGACGCTTGCACCG 2747
  QY 241 TGACTACCTGCGCACATTTGCCCGCGCGCTGCGCGCGCTTACAAAAGCCACACACGCGACG 300
  DB 2746 TGACTACCTGCGCACATTTGCCCGCGCGCTGCGCGCGCTTACAAAAGCCACACACGCGACG 2687
  QY 301 CCGCGGACGATACCCATCCTAGCATCCCGGTGTCAGCAGAGAGATCCATCAAGCGCTCG 360
  DB 2686 CCGCGGACGATACCCATCCTAGCATCCCGGTGTCAGCAGAGAGATCCATCAAGCGCTCG 2627
  QY 361 CGATG 365
  DB 2626 CGATG 2622
RESULT 12
BD010120/c LOCUS BD010120 standard; DNA; SYN: 5228 BP.
XX BD010120;
XX BD010120.1
XX
XX 08-FEB-2002 (Rel. 70, Created)
XX 08-FEB-2002 (Rel. 70, Last updated, Version 1)
XX
XX Method for producing male-sterile plant.
DE
XX
XX JP 03075934-T/3.
XX
XX synthetic construct
XX
XX artificial sequence.
XX
XX
XX 1-5228
XX Hamada K., Nakakido F.;
XX "Method for producing male-sterile plant";
XX Patent number JP03075934-T/3, 16-MAR-2001.
XX JAPAN TOBACCO INC, KAZUYUKI HAMADA, FUMIO NAKAKIDO.
XX
XX OS Artificial Sequence
XX PN JP 03075934-T/3
```

CC	CD	16-MAR-2001
CC	PF	12-SEP-2000 JP 2000006222
CC	PR	30-SEP-1999 JP 99P 279307
CC	PI	KAZUYUKI HAMADA,FUMIO NAKAKIDO
CC	PC	A01H5/00,C12N15/11,C12N15/63,C12M15/82
CC	CC	
CC	CH	Location/Qualifiers
CC	Key	1..5228
CC	source	/organism="Artificial Sequence"
CC	FT	
CC	FT	
xx	Key	Location/Qualifiers
FF	source	1..5228
FF	FT	/db_xref="taxon:32630"
FF	FT	/organism="synthetic construct"
FF	FT	
xx	Sequence	5228 BP; 1384 A; 1307 C; 1263 G; 1274 T; 0 other;
Query Match 100.0%; Score 365; DB 23; Length 5228;		
Best Local Similarity 100.0%; Pred No. 3,4e-93;		
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	1	TCAGCCAGACCAATGGGCGCAAAATTACTACTATTGTGCCATACATTAAACACGTTAAGAAG 60
Db	2986	TCAGCCAGACCAATGGGCGCAAAATTACTACTATTGTGCCATACATTAAACACGTTAAGAAG 2927
QY	61	TCTTACACTCAACCTAACCTGTTGAACGGTCCTGCTTGCGCCAACGGTGAGAATGCACCTTA 120
Db	2926	TCTTACACTCAACCTAACCTGTTGAACGGTCCTGCTTGCGCCAACGGTGAGAATGCACCTTA 2867
QY	121	ATFGACGGGACAACACTCTTTTCACCGTGCTACTGCTACATCCTGTAGACGGTGGACGG 180
Db	2866	ATFGACGGGACAACACTCTTTTCACCGTGCTACTGCTACATCCTGTAGACGGTGGACGG 2807
QY	181	TCAGTGCTTTCCCATGACCGTCCTTGGTTGTTTGCAGTCACTTGGCGCACGCTTGCACCG 240
Db	2806	TCAGTGCTTTCCCATGACCGTCCTTGGTTGTTTGCAGTCACTTGGCGCACGCTTGCACCG 2747
QY	241	TGACTCACTTGGCCACATTCGCCCGCGCTGCCGCGCGCTACAAAAGCCACACACGACG 300
Db	2746	TGACTCACTTGGCCACATTCGCCCGCGCTGCCGCGCGCTACAAAAGCCACACACGACG 2687
QY	301	CCGCGCAGGATACCCTCTTAGCATCCGGGTGTCAGCAGAGATCCATCAACGCGGTGG 360
Db	2686	CCGCGCAGGATACCCTCTTAGCATCCGGGTGTCAGCAGAGATCCATCAACGCGGTGG 2627
QY	361	CGATG 365
Db	2626	CGATG 2622
RESULT 13		
LOCUS	A71437	5349 bp DNA linear PAT 07-MAY-1999
DEFINITION	Sequence 7 from Patent WO9810081.	
ACCESSION	A71437	
VERSION	A71437.1	GI:4775050
KEYWORDS	unidentified.	
SOURCE	unidentified.	
ORGANISM	unclassified.	
REFERENCE	1 (bases 1 to 5349)	
AUTHORS	Michiels,F. and Williams,M.	
TITLE	IMPROVED BARSTAR GENE	
JOURNAL	Patent: WO 9810081-A 7 12-MAR-1998;	
FEATURES	MICHELIS FRANK (BE)	Location/Qualifiers
Source	1..5349	/organism="unidentified"
		/db_xref="taxon:32644"
BASE COUNT	1339 a	1233 c 1290 g 1487 t
ORIGIN		

Query Match	100.0%	Score 365;	DB 6;	Length 5349;
Best Local Similarity	100.0%;	Pred. No. 3.5e-93;		
Matches 365;	Conservative	0;	Mismatches 0;	Indels 0; Gaps 0;
QY	1	TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTATTTGGCCATACATTAACCAACGCTAAAG	60	
DB	3608	TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTATTTGGCCATACATTAACCAACGCTAAAG	3667	
QY	61	TCCTACACTCAACCTAACTGTTGAACGGTCCTGTCTGGCCAAACGGTGAGATGCACCTA	120	
DB	3668	TCCTACACTCAACCTAACTGTTGAACGGTCCTGTCTGGCCAAACGGTGAGATGCACCTA	3727	
QY	121	ATGGACGGGACAACACTCTTTTCACCGTGTGTACTGTACATCCTGTAGACGGTGGACGG	180	
DB	3728	ATGGACGGGACAACACTCTTTTCACCGTGTGTACTGTACATCCTGTAGACGGTGGACGG	3787	
QY	181	TGAGGTGCTTTTGGCCATGACCGTCTCTGGTTGTGTTCAGTCACTTCGCCACGCTTGCACCG	240	
DB	3788	TGAGGTGCTTTTGGCCATGACCGTCTCTGGTTGTGTTCAGTCACTTCGCCACGCTTGCACCG	3847	
QY	241	TGACTCACTGCCACATTCGCCCGCCGCTGCGCGGGCTACAAAACCCACACACGACG	300	
DB	3848	TGACTCACTGCCACATTCGCCCGCCGCTGCGCGGGCTACAAAACCCACACACGACG	3907	
QY	301	CCGGCCAGCATACCCATCCTTAGCATCCCGGTGTCACGCAAGAGATCCATCAACCGCTCG	360	
DB	3908	CCGGCCAGCATACCCATCCTTAGCATCCCGGTGTCACGCAAGAGATCCATCAACCGCTCG	3967	
QY	361	CGATG 365		
DB	3968	CGATG 3972		
RESULT 14				
LOCUS	AR207455	5349 bp	DNA	linear PAT 20-JUN-2002
DEFINITION	Sequence 7 from patent US 6372960.			
ACCESSION	AR207455			
VERSION	AR207455.1	GI:21506374		
KEYWORDS	Unknown.			
SOURCE	Unknown.			
ORGANISM	Unknown.			
REFERENCE	Unclassified.			
AUTHORS	1 (bases 1 to 5349)			
TITLE	Michiels,F. and Williams,M.			
JOURNAL	Barstar gene			
FEATURES	Patent: US 6372960-A 7 16-APR-2002;			
	Location/Qualifiers			
	1..5349			
	/organism="unknown"			
BASE COUNT	1339 a 1233 c 1290 g	1487 t		
ORIGIN				
Query Match	100.0%	Score 365;	DB 6;	Length 5349;
Best Local Similarity	100.0%;	Pred. No. 3.5e-93;		
Matches 365;	Conservative	0;	Mismatches 0;	Indels 0; Gaps 0;
QY	1	TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTATTTGGCCATACATTAACCAACGCTAAAG	60	
DB	3608	TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTATTTGGCCATACATTAACCAACGCTAAAG	3667	
QY	61	TCCTACACTCAACCTAACTGTTGACGGTCCTGTCTGGCCAAACGGTGAGATGCACCTA	120	
DB	3668	TCCTACACTCAACCTAACTGTTGACGGTCCTGTCTGGCCAAACGGTGAGATGCACCTA	3727	
QY	121	ATGGACGGGACAACACTCTTTTCACCGTGTGTACTGTACATCCTGTAGACGGTGGACGG	180	
DB	3728	ATGGACGGGACAACACTCTTTTCACCGTGTGTACTGTACATCCTGTAGACGGTGGACGG	3787	
QY	181	TGAGGTGCTTTTGGCCATGACCGTCTCTGGTTGTGTTCAGTCACTTCGCCACGCTTGCACCG	240	
DB	3788	TGAGGTGCTTTTGGCCATGACCGTCTCTGGTTGTGTTCAGTCACTTCGCCACGCTTGCACCG	3847	

```
QY 241 TGACTACCTGGACATGCCCGCGCTGCTGCGGGCTTACAAAAGCCACACGCGACG 300
|||||
Db 3848 TGACTACCTGGACATGCCCGCGCTGCTGCGGGCTTACAAAAGCCACACGCGACG 3907
|||||
QY 301 CCGGCCACGATACCGATCCCTAGCATCCCGGTGTCAGCAGAGATCCATCAAGCCGCTCG 360
|||||
Db 3908 CCGGCCACGATACCGATCCCTAGCATCCCGGTGTCAGCAGAGATCCATCAAGCCGCTCG 3967
|||||
QY 361 CGATG 365
|||||
Db 3968 CGATG 3972

RESULT 15
E31991/c
LOCUS E31991 6539 bp DNA linear PAT 18-JUN-2001
DEFINITION Mutated barnase gene and transgenic plant thereof.
ACCESSION E31991
VERSION E31991.1 GI:13021588
KEYWORDS JP 2000041682-A/4.
SOURCE unclassified.
ORGANISM unclassified.
REFERENCE
1 (bases 1 to 6539)
Kazuyuki, H. and Fumio, N.
Mutated barnase gene and transgenic plant thereof
Patent: JP 2000041682-A 4 15-FEB-2000;
JAPAN TOBACCO INC
COMMENT
OS Escherichia coli LE392
PN JP 2000041682-A/4
PD 15-FEB-2000
PF 04-AUG-1998 JP 1998220060
PR
PI KAZUYUKI HAMADA, FUMIO NAKAKIDO
PC C12N15/09, A01H5/00, C12N5/10, C12N9/22//C12N5/10, C12R1:91, PC
C12N15/00,
PC C12N5/00, (C12N5/00, C12R1:91)
CC
FH Key Location/Qualifiers
FT source 1..6539 /organism='Escherichia coli LE392'.
FEATURES
source Location/Qualifiers
1..6539
/db_xref='taxon:32644'
BASE COUNT 1755 a 1578 c 1519 g 1687 t
ORIGIN

Query Match 100.0%; Score 365; DB 6; Length 6539;
Best Local Similarity 100.0%; Pred. No. 3.5e-93;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTGGCCATACATTAAACGCGTAAAG 60
|||||
Db 2977 TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTGGCCATACATTAAACGCGTAAAG 2918
|||||
QY 61 TCCTACACTCAACCTAAGTGTGACGGTCTCTGTTCTGGCCACGCGTGAGAAATGCACCTA 120
|||||
Db 2917 TCCTACACTCAACCTAAGTGTGACGGTCTCTGTTCTGGCCACGCGTGAGAAATGCACCTA 2858
|||||
QY 121 ATGAGCGGACCAACACTTCTTTACCGGTGCTACTGCTACATCCTGTAGAGGTTGACGCG 180
|||||
Db 2857 ATGAGCGGACCAACACTTCTTTACCGGTGCTACTGCTACATCCTGTAGAGGTTGACGCG 2798
|||||
QY 181 TGAGGTGCTTTTCGGATCGACCTCTGTTGTTGTCAGTCACTTGGCGAGGTTGCACCG 240
|||||
Db 2797 TGAGGTGCTTTTCGGATCGACCTCTGTTGTTGTCAGTCACTTGGCGAGGTTGCACCG 2738
|||||
QY 241 TGACTACCTGCCACATTGGCCCGCGGCTGCGCGGGCTTACAAAAGCCACACGCGACG 300
|||||
Db 2737 TGACTACCTGCCACATTGGCCCGCGGCTGCGCGGGCTTACAAAAGCCACACGCGACG 2678
|||||
QY 301 CCGGCCACGATACCGATCCCTAGCATCCCGGTGTCAGCAGAGATCCATCAAGCCGCTCG 360
```

```
|||||
Db 2677 CCGGCCACGATACCGATCCCTAGCATCCCGGTGTCAGCAGAGATCCATCAAGCCGCTCG 2618
|||||
QY 361 CGATG 365
|||||
Db 2617 CGATG 2613

Search completed: December 2, 2002, 03:09:18
Job time : 956.546 secs
```